

## ABSTRACT

A telephone network and a method and system for its use is disclosed. In a first aspect of the present invention, a telephone network is disclosed. The telephone network includes an internet service provider (ISP) coupled to a local switching exchange. The local switching exchange receives and transmits calls to a plurality of devices. The network includes a plurality of modems coupled to the ISP. The network also includes a plurality of phone systems. Each of the phone systems including a cordless unit and a base station. Each of the plurality of phone systems also is associated with one of the plurality of modems, wherein a call can be routed to or from each of the cordless units through any of the modems to any of the plurality of devices. In a second aspect, a method and system for sending a call from a phone system to a device is disclosed. The phone system comprises a cordless unit and a base station. The phone system is also coupled to a modem. The modem is coupled to an internet service provider (ISP). The method and system comprises utilizing the cordless unit to initiate the call and determining whether the cordless unit is within range of the base station. The method and system further includes routing the call from the cordless unit to the ISP via the modem, if the cordless unit is within range of the base station and routing the call from the cordless unit to the ISP via another modem if the cordless unit is not within range of the base station. The another modem is associated with another base station and is coupled to the ISP. The method and system finally includes providing the call to the device. In a third aspect, a method and system for receiving a call from a device by a phone system is disclosed. The device received a call from the phone system. The phone system includes a cordless unit and a base station. The phone system is coupled to a modem. The modem is coupled to an internet service provider (ISP). The method

and system comprises providing the call to the ISP and determining whether the cordless unit being called is within range of the base station by the ISP. The method and system includes routing the data from the device to the cordless unit via the modem, if the cordless unit is within range of the base station; and routing the data from the device to the cordless unit via another modem if the cordless unit is not within range of the base station. The another modem is associated with another base station and is coupled to the ISP. Finally, the method and system includes the step of receiving the call by the phone system. Through the use of the method and system in accordance with the present invention, Internet telephony is utilized in conjunction with cordless phone systems in order to facilitate two-way radio communication between a cordless unit and multiple base stations thereby creating a cellular-like telephone environment without the use of cellular telephones.

09397726 a 06/2004